



Native to a Web of Data

Tom Coates

<http://www.flickr.com/photos/altemark/39593706/>



Hello London!

© Lorri Auer

Hi, My name's Tom Coates. I've spent the last couple of years working for the BBC running a small R&D team in Radio and Music, and I'm currently doing something pretty similar for Yahoo, although I should state straight off that I've only been with them a couple of months and this talk is definitely my thoughts and not corporate policy.

The only other part of my team in London at the moment is esteemed Python nerd Simon Willison, who is in the audience today. Ladies and Gentlemen, Simon Willison. Simon has been incredibly helpful in forcing me to get my head together for this presentation and I'd just like to start off by saying an enormous thank you to him, and to Matt Biddulph and Andy Budd who have been really cool.

Anyway – as usual I've massively over-prepared, and I've got way way way too many slides and so I'm going to have to start. I'll be putting the whole thing online after the event so you can figure out what I was on about if I belt through it all a bit too fast...

Design and Web 2.0

Mmm. Shiny.

Now, when you think about design and Web 2.0 probably the first thing you think of is bloody gradient fills and rounded corners.

Chatsum

http://www.chatsum.com/ Google



On the web, no one can hear you scream... **Until now**

Welcome About Dev Blog

Welcome To Chatsum

Chatsum is a FREE add-on for your web browser that lets you chat with all the other Chatsum users that are looking at the same website as you.

Chatsum lets you:

- ✔ Chat live with other people who are looking at the same website as you!
- ✔ Find out what other people think about the websites you're looking at!
- ✔ Leave messages on any website you visit!
- ✔ Read messages left on websites by other Chatsum users!
- ✔ Browse the Chatsum community's favourite websites!
- ✔ Hunt for treasure in our unique...
- ✔ Find people that like the same...

Do you want to know how many other people are looking at the same website as you?

How about chat to them?

How about chat to anyone in the world to anyone at anytime?

You *need* to Chatsum!

[Find out more on our about page...](#)

Apply To Beta Test



Help us squash the bugs and make Chatsum even better. Sign up now

Your E-Mail Address:

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Apply

Chatsum

1. digg.com
2. digg.com
3. news.bbc.co.uk

RECENT COMMENTS








Home Learn Blog Subscribe




The easiest way to send invoices online

 **Free 30-day Trial** start sending invoices in 5 minutes

What can Blinksale do for me?

Blinksale creates:



-  Service invoices
-  Time-billing invoices
-  Product invoices
-  Payment reminders
-  Thank-you messages

Summary	Open	Past Due
 New Service Invoice		
 New Time Invoice		
 New Product Invoice		

Subscribe to your invoices: Subscribe to your invoices with your XML invoice

Blinksale

With Blinksale, it's a breeze to...

-  Send elegantly formatted invoices to your customers' email
-  Send payment reminders when an invoice is past due

with that you'll be shooting out invoices in no time. Big, chunky, bright, easy to use: the application looks fantastic."
—Mike Rundle, BusinessLogs.com

Rollyo: Roll Your Own Search Engine

http://rollyo.com/index.html

Google

Home | Create Searchroll | Explore Searchrolls | Tools

Orlando: My Profile | Logout

ROLLYO
BETA

Search for...

in: Social Software Search

Share your Searchrolls...

Roll your own search engine.

TO DO:

- ▶ [Create another searchroll](#)
- ▶ [Explore Searchrolls](#)
- ▶ [Learn More About Rollyo](#)

SEARCHROLLS OF NOTE:

- ▶ [Wikimedia Foundation](#)
- ▶ [Semantic Web](#)
- ▶ [Daddy Bloos](#)

HIGH ROLLERS

- ▶ [FRONTLINE/World](#)
- ▶ [Brian Greene](#)
- ▶ [Debra Messing](#)

Home | Cre

Rollyo



But I'm not going to be talking about rounded corners and gradient fills at all. I'm going to be talking about product design at a higher level – about what it means to build a product that fits and works and thrives in its environment. Because the web as an environment is starting to change quite dramatically, it's starting to become more than the sum of its parts.

The next 41 minutes

- What is the web changing into?
- What can you / should you build on it?
- Architectural principles for Web 2.0



A web of data

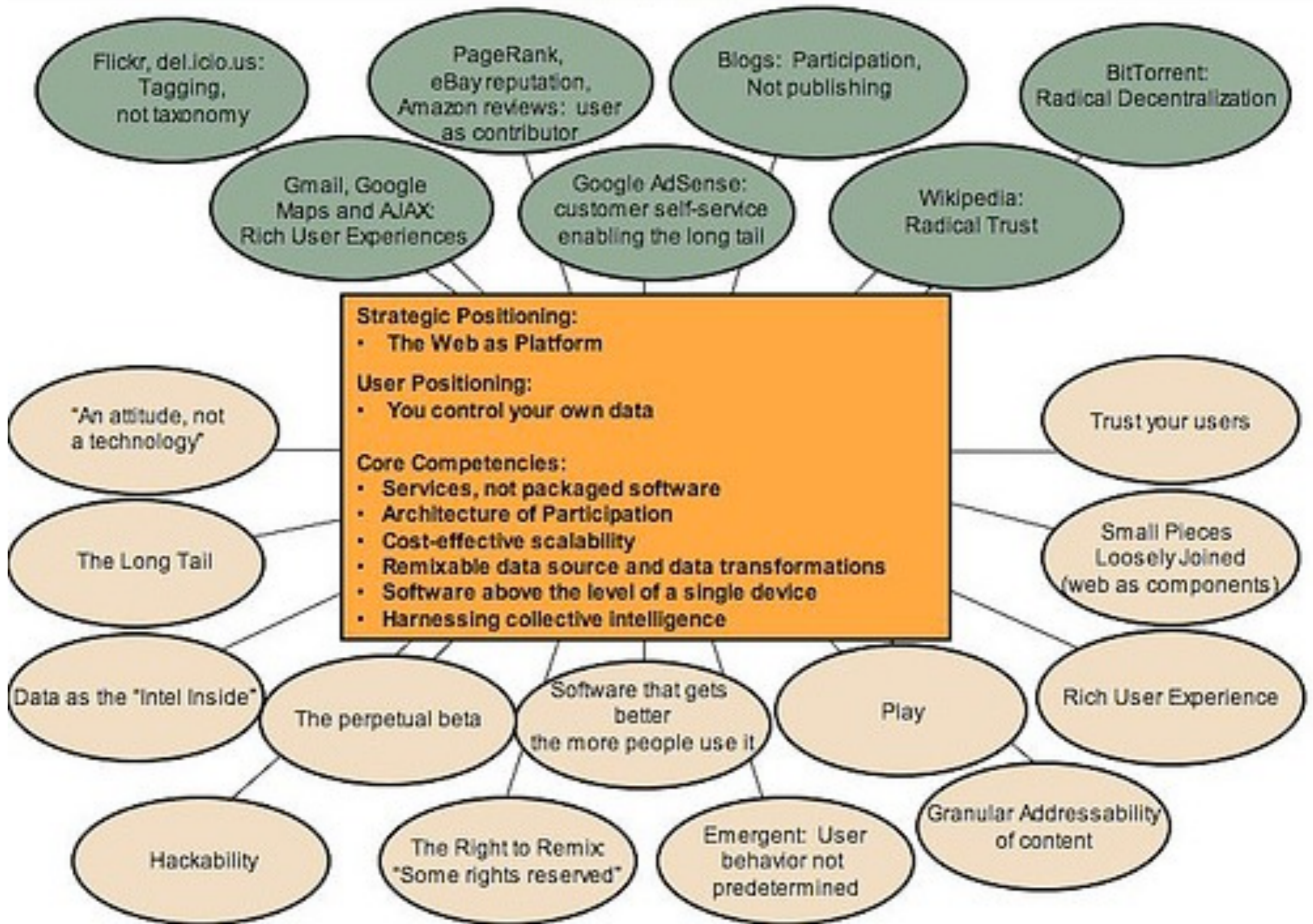
<http://www.flickr.com/photos/777/70455377/> - Naomi Ibuki

Web 2.0?

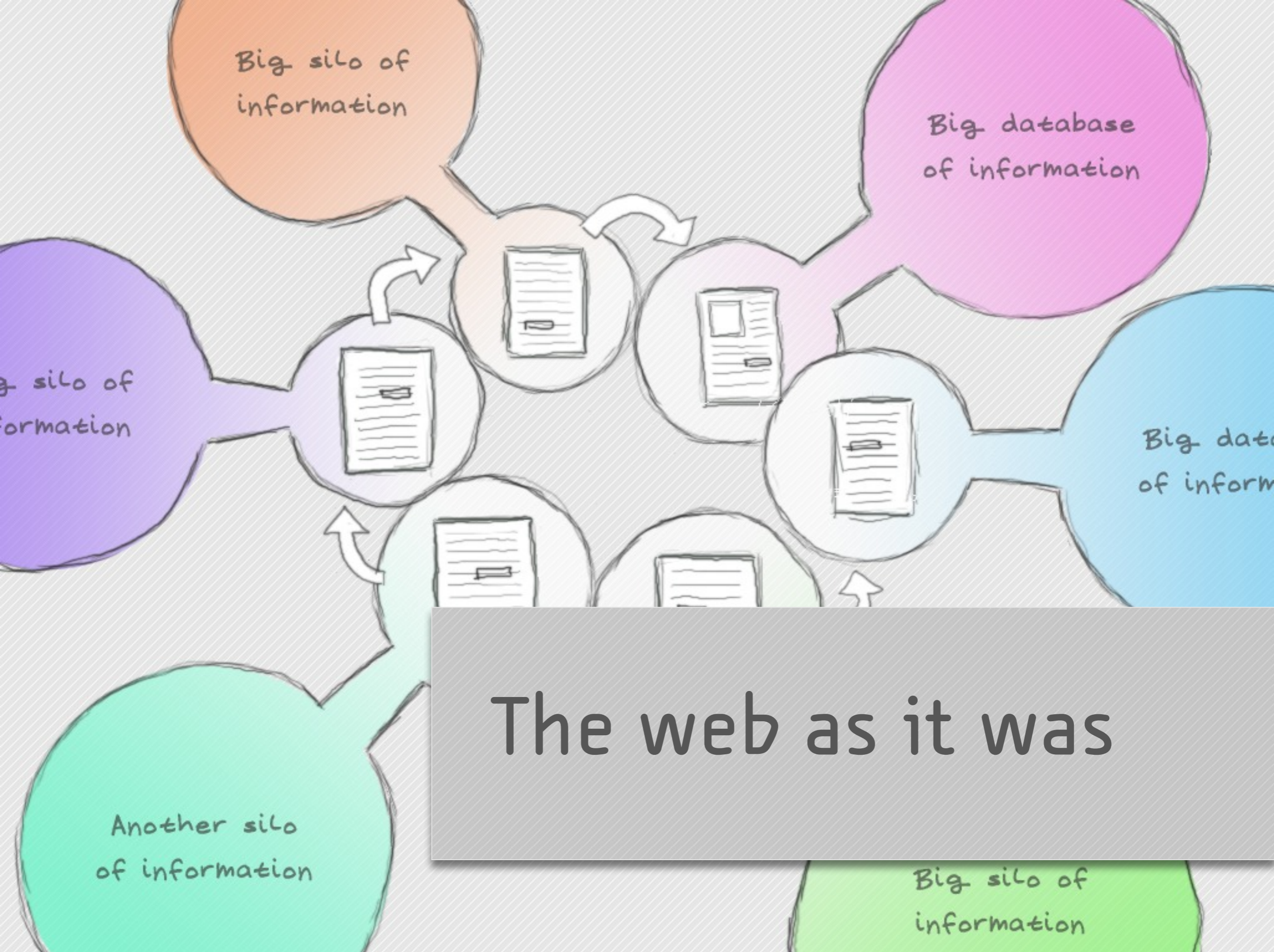
- Buzzword
- Conference
- Marketing
- A new bubble
- All of these and less?

Well it's easy to be cynical about these buzzwords, but the truth is that we've been seeing a mass of new developments over the last couple of years. Before the bubble, the internet was about communication, then with the arrival of the big companies it became all about sales and publishing. But things have been changing again for a few years and we're now in a stage when people are trying to make sense of it. Web 2.0 as a phrase is just one of those attempts.

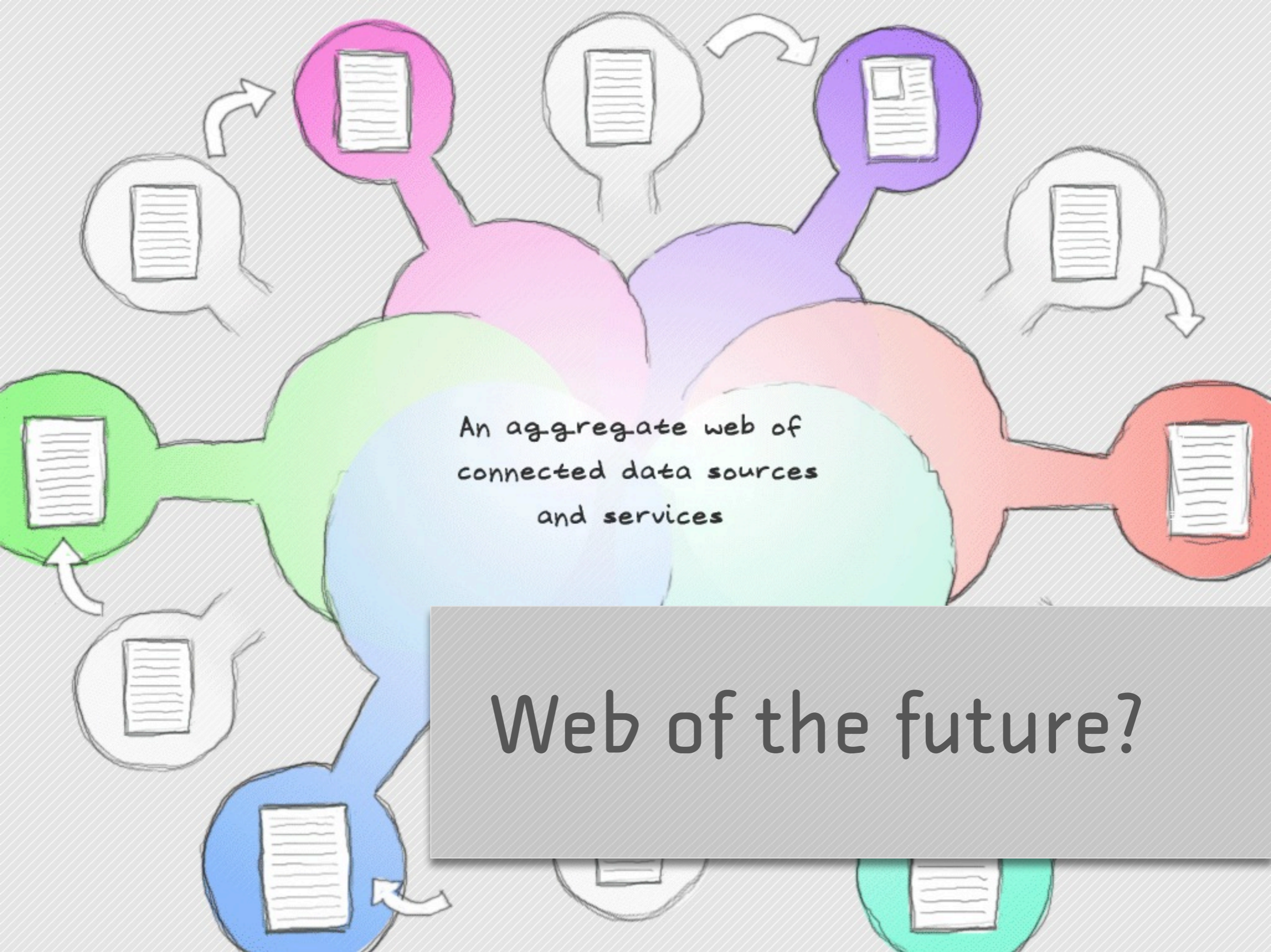
Web 2.0 Meme Map



Probably the most famous attempt to make sense of all the trends that are happening at the moment is Tim O'Reilly's piece on "What is Web 2.0" based on a session he hosted at last year's FOO Camp. Tim and the O'Reilly group also coined the Web 2.0 term. I can really recommend the article – Web 2.0 as a term generates some scepticism from people, but the article itself is way better than most of the commentary that followed.



This is the web that was...



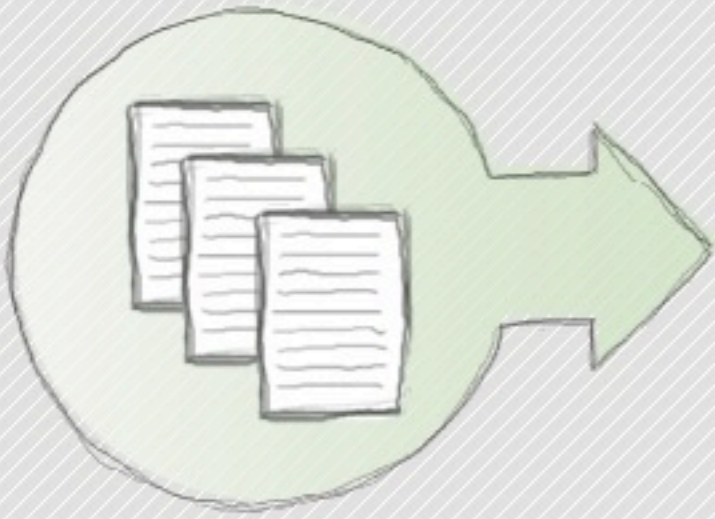
And this is the web that seems to be manifesting. A web of connected data resources, each of which connected to the others around them, able to create more by their combination than they could apart.

This is the web I think we're moving towards and it's very different from the web we have now. Unlike today, where we have pretty much a web of pages, we're on our way towards something like a web of data...

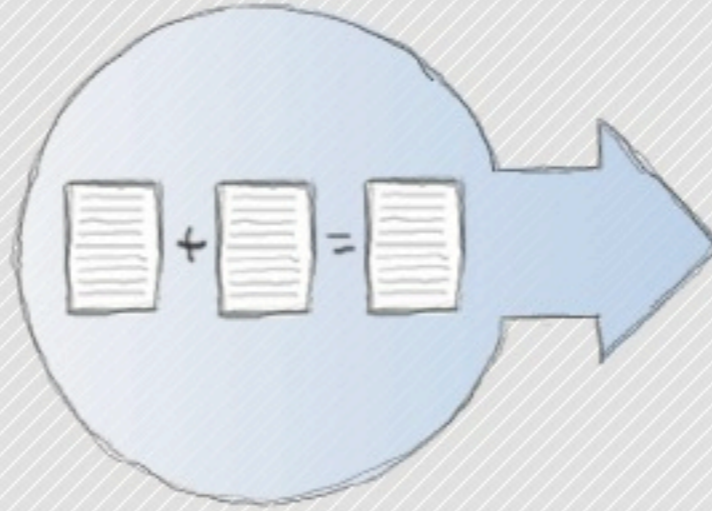
A web of **data sources**,
services for exploring and
manipulating data, and
ways that users can
connect them together

So this is what I'm talking about – a product of the gradual exposure of databases and APIs.

Very important to run through this slide, explaining what I mean by data (most importantly). The other two should become more clear as we work our way through it...



a web of pages



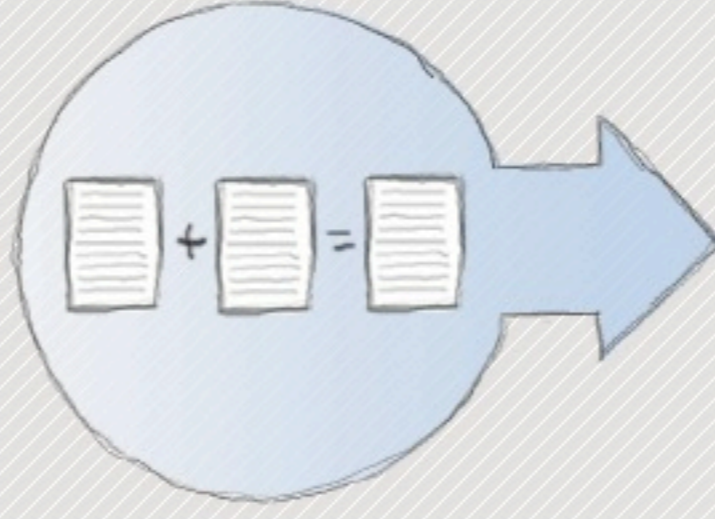
a web of mash-ups

Mash-ups are kind of our pilot fish for whatever the web is becoming. In and of themselves they're fairly interesting, but if you think of them as the beginning of a trend towards interconnected data and reuse they're pretty fascinating...

{Should probably say something here about creative commons and reuse, however briefly}



a web of pages



a web of mash-ups



a web of data

Astronewsology! - Welcome!

http://www.astronewsology.com/ RSS Google

YAHOO! ASTRONEWSOLOGY

Welcome to Yahoo! Astronewsology

The world's most exciting news, enhanced with the divine and immortal truths of the heavens!

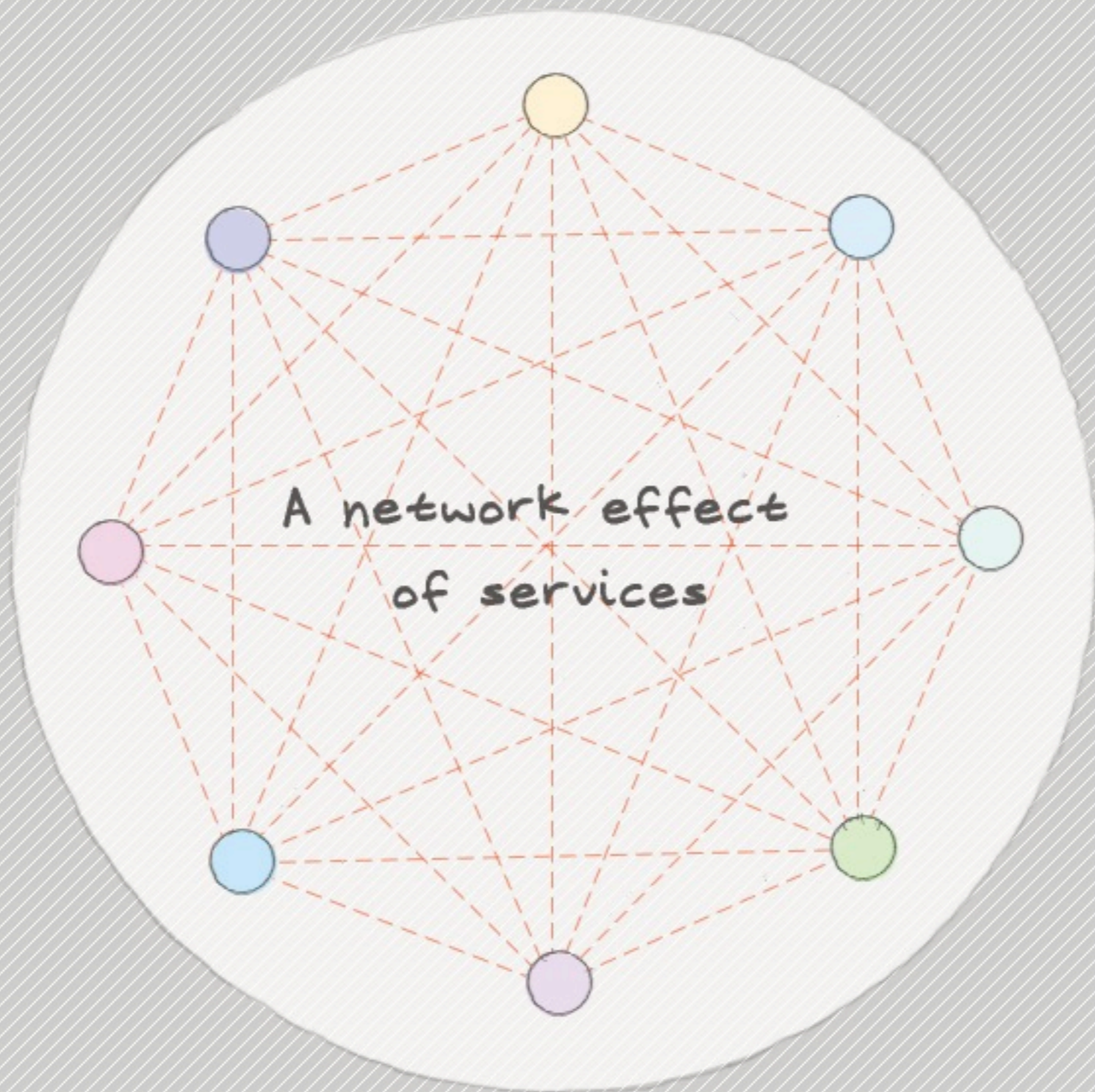
News by starsign!	Top souls in the news!
Aries - 21st March to 19th April	Hillary Rodham Clinton - Scorpio, age 59
Taurus - 20th April to 20th May	Busta Rhymes - Taurus, age 34
Gemini - 21st May to 21st June	George W. Bush - Cancer, age 60
Cancer - 22nd June to 22nd July	Willem Dafoe - Cancer, age 51
Leo - 23rd July to 22nd August	Amy Smart - Aries, age 30
Virgo - 23rd August to 22nd September	Johnny Cash - Pisces, age 74
Libra - 23rd September to 22nd October	Ray Charles - Libra, age 76
Scorpio - 23rd October to 21st November	
Sagittarius - 22nd November to 21st December	
Capricorn - 22nd December to 19th January	
Aquarius - 20th January to 18th February	
Pisces - 29th February to 20th March	

Recent Astronewsologies!

- GOP Chair Says Clinton Turns Off V
- Rhymes' Bodyguard Dies Outside Video Shoot (AP) - 6th February, 09:34
- Bush seeks domestic-spending cuts in 2007 budget (Reuters) - 6th February, 08:58
- Full canvas for 'Anamorph' thriller (Reuters) - 6th February, 08:48

Astronewsology
Internal-only demo splicing together two data sources

Astronewsology (internal only) combines three types of data – birthdays, star-signs and news stories



A Network Effect of services

- Every new service can build on top of every other existing service - the web becomes a true platform
- Every service and piece of data that's added to the web makes every other service potentially more powerful

Consequences

- Massive creative possibilities
- Accelerating innovation
- Increasingly competitive services
- Increasingly componentised services
- Increasingly specialised services

There is money to be made

- Use APIs to drive people to your stuff
- Make your service more attractive and useful with less central development
- Use syndicated content as a platform
- Turn your API into a pay-for service

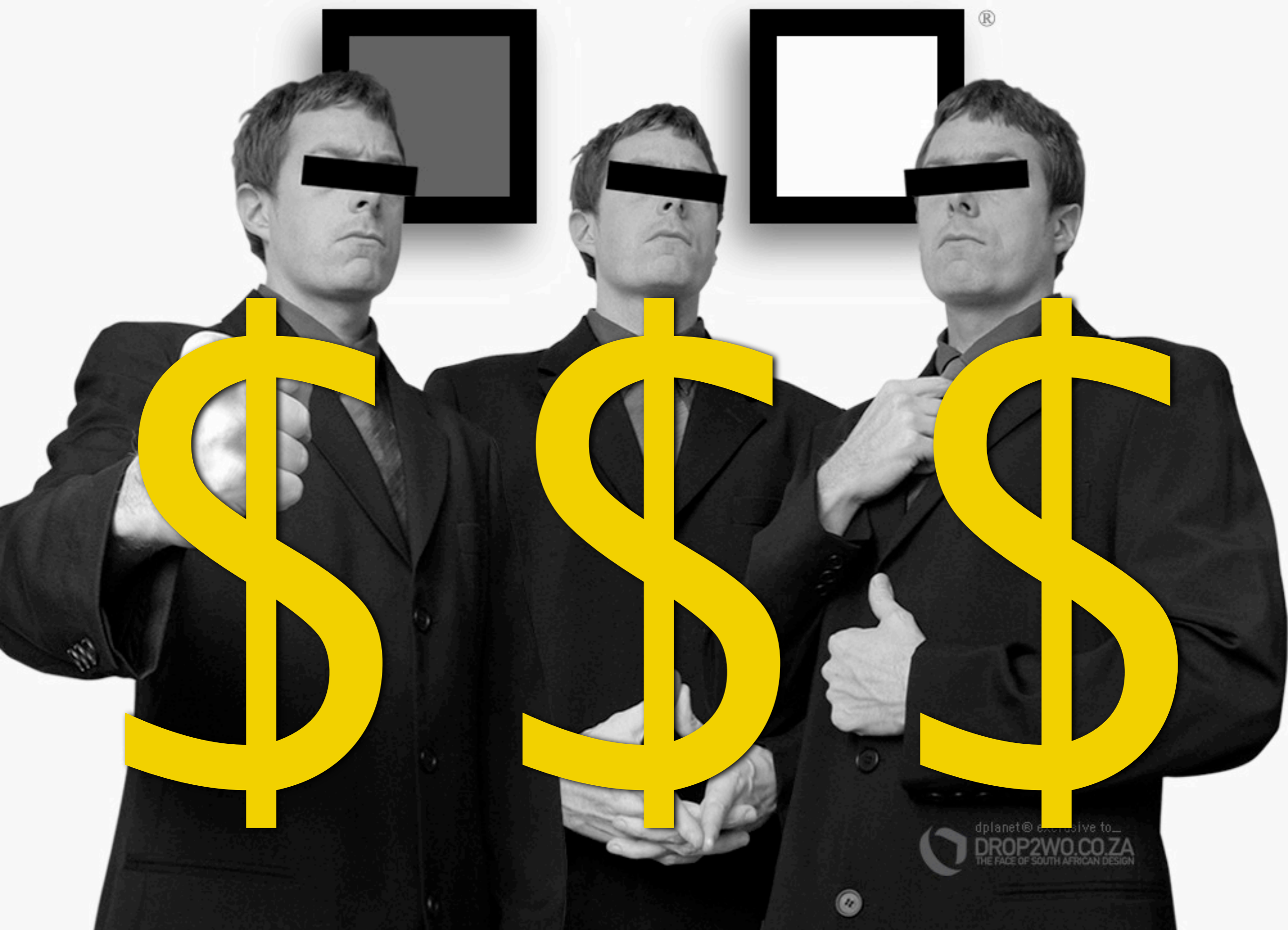
{outline above and then}

Basically, the same thing that we have traditionally associated with Creative Commons and radical idealists and playful people...



<http://www.flickr.com/photos/nodditect/81114201/>

Basically leftie liberals and hippies like, well, me...



Turns out to be just as important and as interesting to the evil capitalists.

Which makes me even more certain that things are going to move in this direction. There's just a new playing field which we're all going to have to play on – for good or ill.

Because if you're not benefitting from the accelerating change, network effects and added value of being part of the web of data, then most likely you're going to be in backwater...

<http://www.flickr.com/photos/dplanet/81933878/>



Choosing what to build



So my argument is that if you're part of this ecosystem you will be pulled along and caught up in a web of accelerating value and reuse, whereas if you are not you'll be stuck in a disconnected backwater.

But what kinds of products work well in this space? How do you decide what to build?

<http://www.flickr.com/photos/merfam/71578647/> – merfam

What can I build that will
make the **whole Web** better?

How can I add value to
the **Aggregate Web**?

A web of **data sources**,
services for exploring and
manipulating data, and
ways that users can
connect them together

So the first question is – can you find way to add data to the aggregate web? Can you create or open up a database of information that already exists, become a definitive home for a particular kind of data on the web? Can you own a kind of data that people want or are prepared to pay for? Can you work with the wider web to help your users create data, to publish or annotate or enhance some things that are already there? Or help them organise a part of their lives, help them turn their own information into data, and share and use it in more powerful ways?

Tim O'Reilly, "What is Web 2.0?"

"The race is on to own certain classes of core data: location, identity, calendaring of public events, product identifiers and namespaces."

"In many cases ... there may be an opportunity for an Intel Inside style play, with a single source for the data. In others, the winner will be the company that first reaches critical mass via user aggregation, and turns that aggregated data into a system service."

To be more cynical and businesslike, one shift in this ecosystem is going to be towards people trying to control and own certain key types of data, or to become synonymous with it. Tim O'Reilly says it best in this particularly blunt couple of quotes from the What is Web 2.0 piece...

A web of data sources,
services for exploring and
manipulating data, and
ways that users can
connect them together

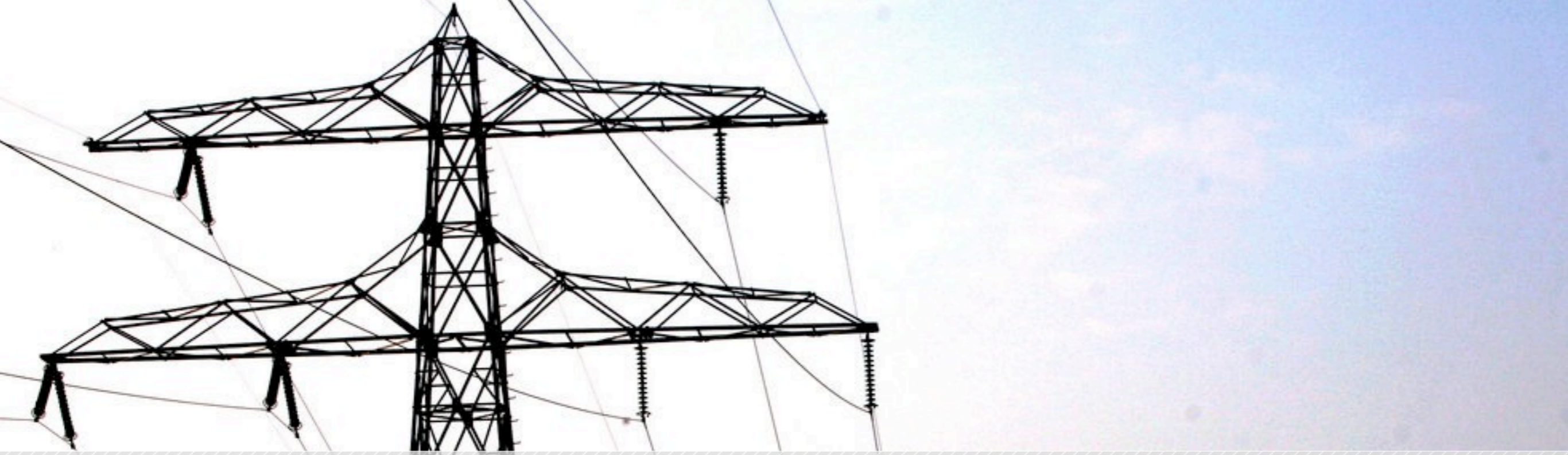
The next way you can add value is by making a service that helps people explore, use or manipulate data in some way. The arrival of weblogs and the popularisation of RSS amounted to pretty much the first improvement to structured data publishing on the popular internet for a long time and loads of people have built on top of the data they've created. Similarly Amazon web services and the Flickr APIs have created an incredibly fertile space both for individuals to play creatively and – increasingly – to build businesses on top of other people's data stores.

Examples: Aggregators? Flickr navigation interfaces?

A web of data sources,
services for exploring and
manipulating data, and
ways that users can
connect them together

At it's most basic – can you move from people or organisations from capturing and organising their data into making it a more embedded part of this data ecosystem. Can you help them syndicate, help them cross publish – ideally without any extra work – and show them the benefits of being able to connect one sort of data with another?

Examples: Feedburner? All consuming?



Architectural principles





The Application of Weblike Design to Data: Designing Data for Reuse

Matt Biddulph
[BBC](#) / [hackdiary](#)

Some core components

- Data sources
- Standard ways of representing data
- Identifiers & URLs
- Mechanisms for distributing data
- Ways to interact with / enhance data
- Rights frameworks & financial

1

Look to *add value* to the
Aggregate Web of data

* Mission: Try and build something that adds value to the aggregate web – improving a data source, finding a new way to connect disparate data sources, build a new interface for manipulating data.

2

Build for normal users, developers and machines

User interface changes in a web of data, because you have at least three types of user – normal humans who are looking to explore or use the information on your site, developers who are looking for the hooks that they can use to build upon your service, and software that's been trained to look for common features and standards directly at the data level. To be part of a web of data you need to build for all of them.

3

Start designing with data, not with pages

Always think about what you're making in terms of data/information and not pages. This sounds like it would scare off real people, but actually the opposite is the case. Having a clear understanding of the information that a page represents is a good thing for normal human users. In both jobs, what you're trying to do is turn information into navigable, explorable, reusable, connectable units.

You're looking for a best of both world's scenario, where you have data that is rich and consistent enough for machines to work with reliably organised in ways that make it explorable and comprehensible to humans.

The process of product design starts with designing the data, and the data structures and relationships. If you don't capture information and relationships that will make it easy to navigate through your application or service then it will never work.

4

Identify your first order objects and make them addressable

Every page on your site will end up being an addressable view of your data. When I say addressable, I mean that you can point to it, or link to it, or send it to your friends or use it as a marker to stand in for the full contents of the page. So your first job is to understand what the core concepts are that you're going to be working with – whether it be people, addresses, events, photographs, television programmes or whatever – and to give each of these a unique and well structured URL.

These will be your 'destination' pages.

annotatable audio - Yahoo! Search Results

http://search.yahoo.com/search?ei=UTF-8&fr=sfp&p=annotatable+ RSS flickr api

Yahoo! My Yahoo! Mail Welcome, Guest [Sign In] Search Home Help

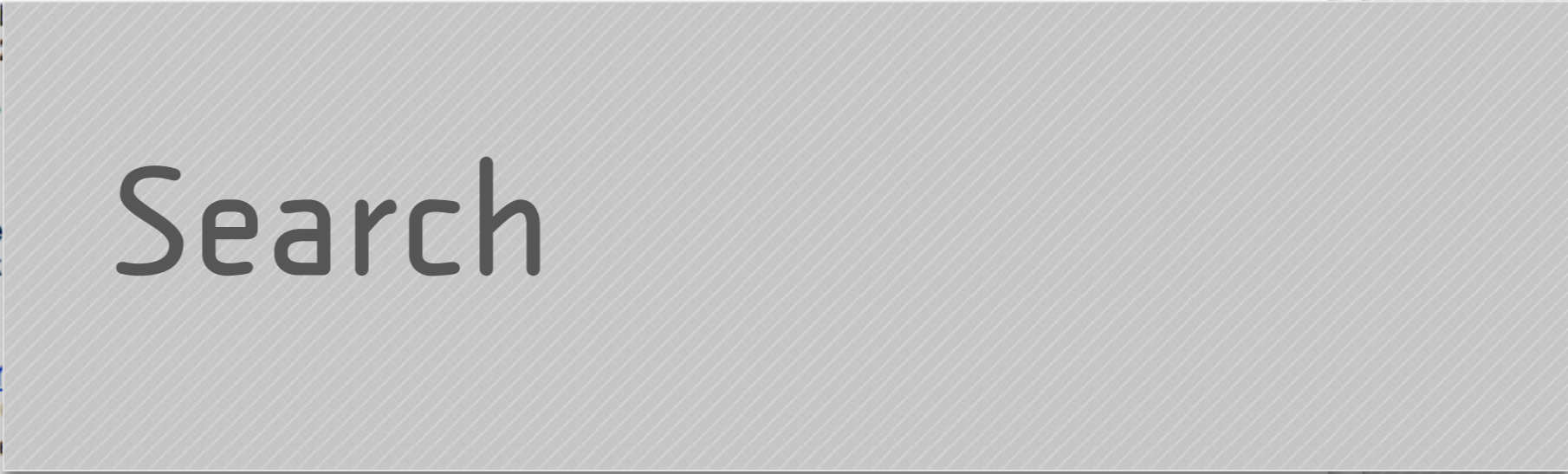
Web | Images | Video | Audio | Directory | Local | News | Shopping | More »

YAHOO! SEARCH Search

My Web Answers BETA Search Services Advanced Search Preferences

Search Results Results 1 - 10 of about 1,260 for **annotatable audio** - 0.63 sec. (About this page)

1. [On the BBC Annotatable Audio project... \(plasticbag.org\)](#)
... On the BBC **Annotatable Audio** project... Posted October 28, 2005 02:59 PM ... The project we undertook was focused on **Annotatable Audio** (specifically, but not exclusively, of BBC radio ...
[plasticbag.org/archives/.../on_the_bbc_annotatable_audio_project.shtml](#) - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)
2. [Protein° Feed - BBC, Annotatable Audio](#)
5.1. Tom Coates gives us all a sneak-peek of the BBC R&D project he's been working on, as it's his last day at the beeb. The concept is to allow users to collectively describe, segment and annotate **audio** in a wikipedia-style fashion.
[feed.proteinos.com/item/3755/catid/3](#) - 15k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)
3. [blogdex - link diffusion - plasticbag.org/archives/2005/10/on_the_bbc_annotatable_audio_project.sh...](#)
This site was found on following web
BBC **Annotatable Audio** project...
Annotatable Audio project
[blogdex.net/track.asp?id=12878837](#)
4. [Hot Links](#)
... jkottke : The BBC's **Annotatable Annotatable Audio** project he work
[dev.upian.com/hotlinks/tag/audio](#) -
5. [Thinking about the Future: Annotatable audio](#)
... **Annotatable audio**. Hmm. Tom meant to mention last week when h
Annotatable audio ...
[paulmiller.typepad.com/.../2005/10/annotatable_aud.html](#) - 22k - [Cached](#) - [More from this site](#) - [Save](#) - [Block](#)
6. [Hot Links - Level 3](#)



Even if you do no more than that, you're already playing well in the aggregate web of data – search engines and aggregators like...

Technorati Search for: www.plasticbag.org/archives/2005/10/on_the_bbc_annotatable_audio_project.shtml

http://www.technorati.com/search/www.plasticbag.org%2Farchives%2F2005%2F10%2Fon_the_bbc_annotatable_audio_project.shtml flickr api

Currently tracking 27.3 million sites and 2 billion links. [Member Sign In](#) [Sign Up](#) [Help](#) [About](#)

Technorati™

[Search](#) [Tags](#) [Blog Finder](#) [Explore](#)

www.plasticbag.org/archives/2005/10/on_the_bbc_annotatable_audio... [Options](#)

109 sites link to:

[Add to Watchlist](#)
[View in Mini](#)

www.plasticbag.org/arch...

3 posts in the last 4 days sorted by recency (sort by authority).

BBC Annotatable Audio Project

By Andy Polaine in Playpen 2 days ago
[check this out](#)

Fading Waypoints

In Fading Waypoints 4 days ago
that the interface threshold to create a tag is so low that people actually do it regularly. Implementing real-world structured searches

ICANN ACCREDITED
Go Daddy .COM
#1 OVERALL REGISTRAR
www.godaddy.com

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Welcome back!

- Do you blog? [Claim it](#) to get in here!
- Want more? [Become a member](#) to save searches in a Watchlist.

US mourns the passing of Civil Rights leader [Coretta Scott King.](#) »

▼ Today's Most Popular

News

- BBC NEWS | South Asia | Fo...
- CNN.com – Cartoon protests...
- BBC NEWS | World | South A...

Movies

- Brokeback Mountain
- Munich (2005)
- Walk the Line (2005)

Books

- The Da Vinci Code
- Harry Potter and the...
- Memoirs of a Geisha



technorati...

BBC Annotatable Audio project

http://digg.com/software/BBC_Annotatable_Audio_project

digg [login](#) [register](#) [about digg](#)

[home](#) » [software](#) » [bbc annotatable audio project](#)

Make Your Donation Today

Help Rebuild Lives & Communities in Hurricane Affected States.
www.BushClintonKatrinaFund.org

Public Service Ads by Google [Advertise on this site](#)

5 diggs

BBC Annotatable Audio project

submitted by [ozz109](#) 97 days ago (via <http://www.plasticbag.org/arch...>)

[digg it](#) Allows users to collectively describe, segment and annotate audio in a Wikipedia-style fashion. It was developed by the BBC Radio & Music Interactive R&D team.

[submit comment](#) | [blog this](#) | category: [software](#)

comments

[Login to comment.](#)

who dugg this?

- [ozz109](#) (0)
- [jables](#) (1)

digg

digg...

del.icio.us / url

your bookmarks | inbox | for | post

popular | help

logged in as plasticbag | settings | logout

del.icio.us history for
http://www.plasticbag.org/archives/2005/10/on_the_bbc_annotatable_audio_project.shtml search

This url has been saved by 218 people. → [show related items](#)

<p>2006-02-06 On the BBC Annotatable Audio project... (plasticbag.org) to media_annotation audio_annotation by nnoakes ... copy</p> <p>2006-02-02 On the BBC Annotatable Audio project... (plasticbag.org) This post concerns an experimental internal-BBC-only project designed to allow users to collectively describe, segment and annotate audio in a Wikipedia-style fashion. to audio cool interface podcasting wiki by cogdog ... copy</p> <p>2006-01-31 On the BBC Annotatable Audio project... (plasticbag.org) This post concerns an experimental internal-BBC-only project designed to allow users to collectively describe, segment and annotate audio in a Wikipedia-style fashion. to lifeoftags tag tagging audio social_software by draggin ... copy</p> <p>2006-01-21 On the BBC Annotatable Audio project... (plasticbaa.org) to classification folksonomy a</p> <p>2006-01-07 On the BBC Annotat "This post concerns an exper describe, segment and annot to audio bbc by Dulce ... copy</p> <p>2006-01-02 On the BBC Annotat Wiki + Radio = Excellent to wiki tagging radio by alasta</p> <p>On the BBC Annotat to audio annotation by gcher</p> <p>2005-12-31 On the BBC Annotatable Audio project... (plasticbag.org) Fascinating internal BBC project to allow for the annotation of audio. to audio collaboration design tools flash by bitdepth ... copy</p> <p>2005-12-29 On the BBC Annotatable Audio project... (plasticbag.org) to bbc annotation tagging audio by foraems ... copy</p>	<p>common tags</p> <p>150 audio 95 bbc 61 annotation 57 tagging 46 wiki 40 radio 38 music 33 media 26 metadata 20 collaboration 20 blog 18 tags 17 podcasting 16 social</p>
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del.icio.us

and del.icio.us can already start usefully aggregating information about each addressable component of your site, based on how people link to and reference them.

5

**Use readable, reliable
and hackable URLs**

Good URLs should:

- be permanent references to resources
- have a 1-to-1 correlation with concepts
- use directories to represent hierarchy
- not reflect the underlying technology

Good URLs should:

- reflect the structure of the data
- be predictable / guessable / hackable
- be as human readable as possible
- be - or expose - identifiers

Some URL schemes are so elegant and powerful that they really offer themselves up as a major interface to the site itself – even to the extent that they have to be pulled into the page as a design element.

Newsvine - london

http://www.newsvine.com/london

newsvine.com / london

Newsvine Region: All

Already have your own blog? Add Newsvine to it automatically.
Find out how to display Newsvine seeds inside your existing blog.

WELCOME
HELP
REPORT BUG

Top News World U.S. Sports Politics Tech Entertainment Science Business Health Odd News Log Out

WATCH LONDON → Show Results From: All | World | Politics

Tom Coates (?)
Go To Your Column
View Your History
Write A Post
Edit Posts
Edit Links
Edit Your Profile
★ Invite Friends

Newsvine Button (?)
Seed Newsvine

Sort News:
 Ranked Raw

Your Watchlist (?)
 Show Only New Items
CLEAR NEW

Authors:
Newsvine Blog (1) -

Top 'london' Contributors (?)

The Wire - Fresh From The A.P.
2007 Tour De France to Start in London
Jan 24 - By Jonathan Levin, AP Writer
The 2007 Tour de France will start in London.
sports, france, london, tour, cycling, tour-de-france, de, france-london, +
2 ↑ 0 ↓

2007 Tour De
Jan 24 - By Associ
The Tour de Fra
city's mayor and
sports, france, lon
6 ↑ 2 ↓

Whale Rescued
Jan 23 - By Jennife
The whale's wou
really it's a sma
usually favored by gardeners.
world-news, britain, london, whale, +
2 ↑ 2 ↓

The Vine - Fresh From You
Reuters - FACTBOX - London mosque's alleged terrorism links
9 hours ago - Seeded by Ildio Louro
Source: alertnet.org
Radical Muslim cleric Abu Hamza al-Masri was found guilty of inciting murder on Tuesday
murder by an Old Bailey jury.
muslim, politics, london, cleric, abu-hamza, finsbury-park, racial-hatred, finsbury-park-mosque, +

Newsvine

This kind of approach started on del.icio.us, but I thought it was really interesting that it found itself over on newsvine.

I'm not sure what I think of this approach, but it certainly shows you how powerful the URL can be in terms of supplementing or extending a site's navigation

... in addition creating a easy to automate way for a piece of software to connect and explore a site.

Good URLs are beautiful and
a mark of design quality



Correlate with external identifier schemes (or coin a new standard)

But URLs aren't the only kind of addressability that you might need, because not all concepts are created natively in one place on the internet. A weblog post can be identified uniquely by its URL, as can a photo on Flickr because they're not only the representation of that concept, they are the thing itself.

But what about films, tv shows, books, people, events? All of these things exist independently of the internet and are likely to have multiple and potentially competing representations online. You need a new concept to link all those representations together – to connect up the data produced in different places – and that's the idea of a unique identifier that represents that concept.

So, if you're working with types of data that already have a canonical or recognised authoritative representation or identifier exposed on the web, then build ways to correlate your identifier with the definitive one. If there aren't definitive URLs or identifiers out there already – which in many cases is more likely – then you will derive huge benefits from defining them or competing with dominant players who have coined them already.

7

Build list views and batch manipulation interfaces

* We've got our core first-order objects, and we've made them addressable, with a unique web page representing each one, and we've correlated those concepts with identifiers on the wider web.

* Now we have to think about ways in which you'd navigate between them, and ways in which you can manipulate and fiddle with the data you've got at your disposal, which is when we get to list views and ways of manipulating data...

Destination Page

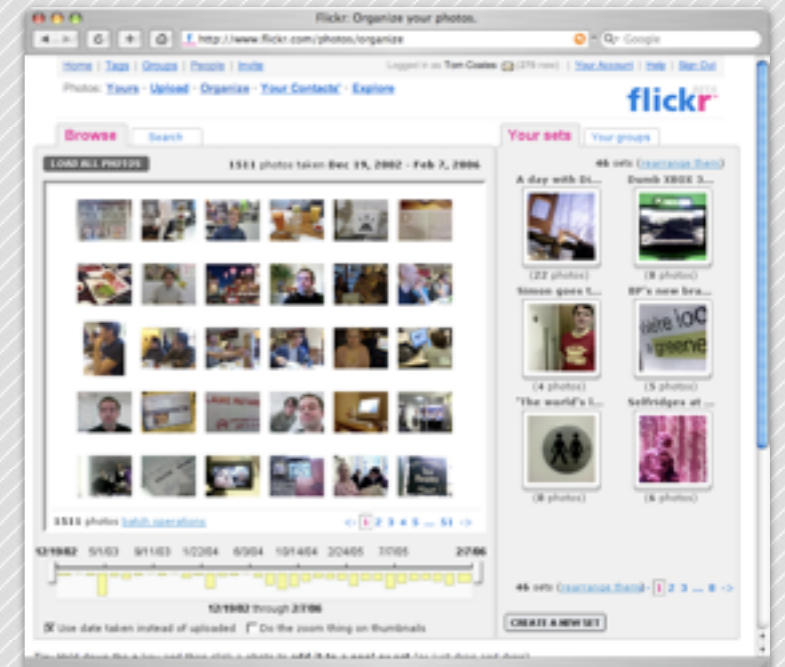
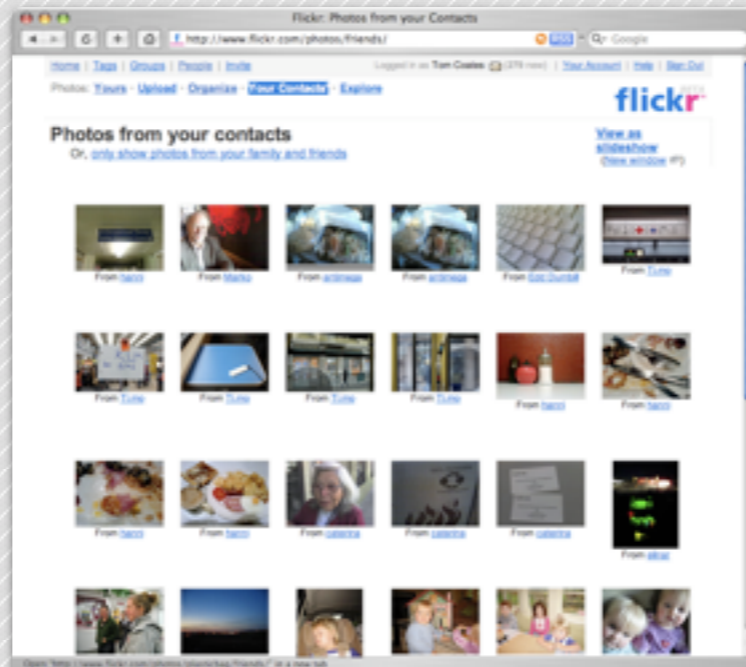
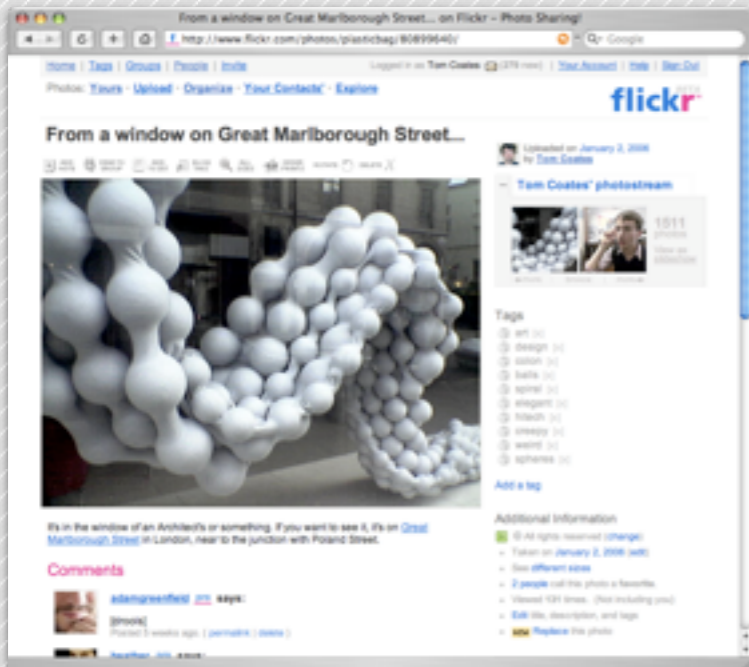
A core first-order concept and its subordinate information

List-view page

A slice of your data used to navigate between first-order concepts

Manipulation Interface

Interface for the batch manipulation of first-order concepts



Three core types of page

There are fundamentally only really **THREE CORE TYPES** of pages that you need to build a web of data native service – or maybe even that's overstating it. It's possible you'll only need two. The core ones are:

- * Pages representing your first order concepts – which is what we've talked about already, addressable concepts. On these pages, one of the bits of data that you'll want to have captured is explicit relationships to other first order concepts – ie. next in sequence and stuff like that.
- * But the second type is about higher level views and lists of the first order objects – other ways of exploring that dataspace.
- * The third form is really for convenience. If you're building a service where data manipulation is more core, and there's a lot of manipulation to do, then you might need a set of dedicated manipulation interfaces. Flickr has one in Organizer.

The concept of manipulation is really important and interesting one, because user manipulation of data is heavily constrained by the interface widgets at your disposal. Which is where new interface technologies like Flash and Ajax can come in.

The most important thing when using either technology is that you should absolutely ***not*** break the web. Each of your destination pages here should be addressable with a clear URL that represents a concept. Similarly each of your list view pages should have its own URL as well. Distinct things get distinct pages. Which means that if you're using Ajax or Flash on a page that's about a concept, you should only use it to help people manipulate or edit **THAT CONCEPT**. It's only in dedicated batch manipulation interfaces that you can go wild with this technology – because individual resources aren't necessarily supposed to be referenced while they're being fiddled with.

Rufus Wainwright plays downstairs at work on Flickr - Photo Sharing!

http://www.flickr.com/photos/plasticbag/5867032/ Google


Home | Tags | Groups | People | Invite Logged in as Tom Coates: (279 new) | Your Account | Help | Sign Out

Photos: Yours | Upload | Organize | Your Contacts | Explore

flickr BETA

Rufus Wainwright plays downstairs at work

ADD NOTE SEND TO GROUP ADD TO SET BLOG THIS ALL SIZES ORDER PRINTS ROTATE DELETE



Uploaded on March 4, 2005 by Tom Coates

Tom Coates' photostream

1513 photos View as slideshow

This photo also belongs to:

Rufus Wainwright at 6music (Set)

Flickr Ajax

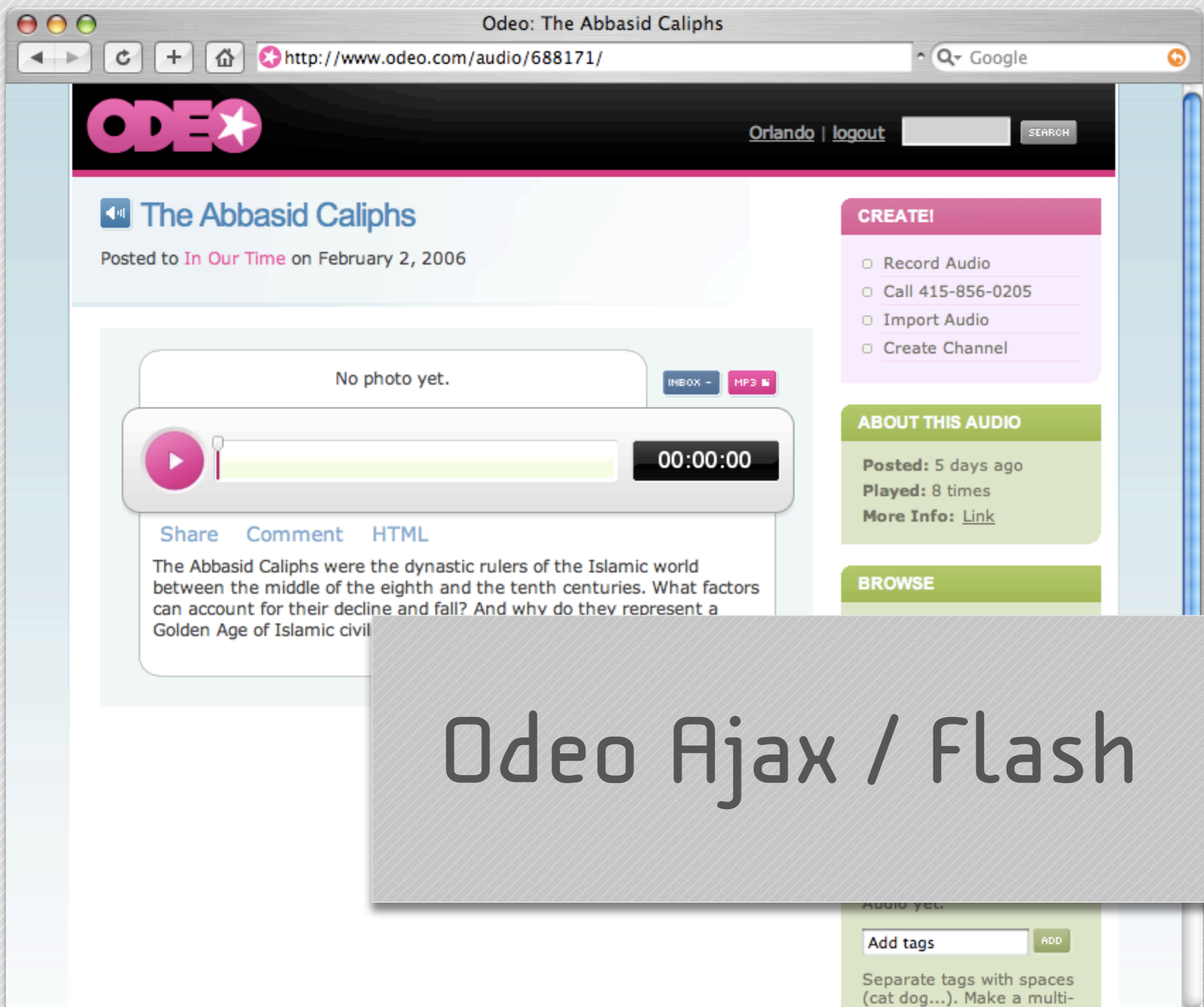
Comments

Jon Hicks pro says:
I guess some people are lucky to be working for Aunty Beeb! I would've love to a have soon this...

hub [x]
celebrity [x]

Add a tag

Flickr does this extremely well – their destination pages each represent a photo and allow you to rotate the photo, add tags and annotate without refreshing the page. But the pages remain referenceable and part of the web. This kind of componentised use is a complete shift from the Flash / DHTML interfaces of yesterday and is all the better for it.



Odeo Ajax / Flash

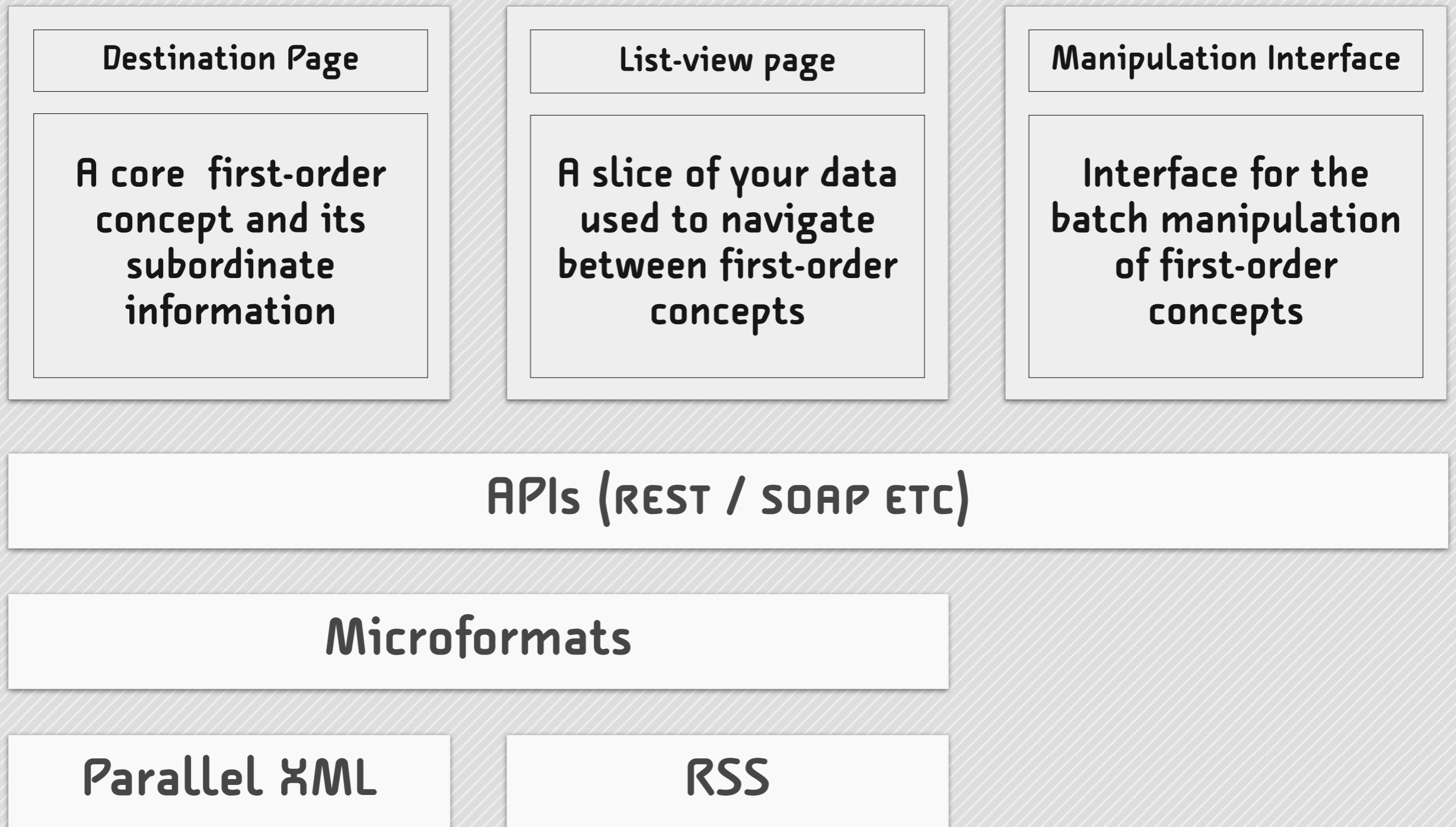
Another site that does this stuff really well is Odeo. They use Flash components all over the place to allow in place previewing and listening to audio, but they never break

8

Create parallel data services using understood standards

Three views

Parallel data representations



So you've got your three particular types of page

Ray Ozzie said in a leaked Microsoft Memo – RSS feeds (unix pipe of the internet?) / API.

All items tagged web2.0 → view yours, popular search

« earlier | later »

Personal and small business information manager: Get organized, Backpack
to blog mobile web2.0 by graca_jorge ... and 2612 other people ... on 2006-02-07 ... copy

30 Boxes | it's your life
to web2.0 ajax by superjodash ... and 126 other people ... on 2006-02-07 ... copy

WINAMP.COM | Plug-ins
to ajax web2.0 music server by bentheo ... and 2 other people ... on 2006-02-07 ... copy

30 Boxes | it's your life
to google Web2.0 culture by jeddnyc ... and 739 other people ... on 2006-02-07 ... copy

qwerky
收集怪異的網路服務
to Web2.0 Geek by Libraene ... and 53 other people ... on 2006-02-07 ... copy

Gtalkr [http://gtalkr.com]
to Google gtalk gmail flickr youtube web2.0 fl

Welcome to the Blogosphere: Pop
to blogs numinous web2.0 by vincenthorn ...

iThink's blog: digg是个暴发户
to Web2.0 by topku ... and 25 other people ...

Blagniscent
to Web2.0 by valouren ... and 292 other people ...

Writely - The Web Word Processor
to Software web2.0 free by polarity ... and 32 other people ... on 2006-02-07 ... copy

goowy
personal front page / flash
to flash web2.0 desktop portal by luka ... and 30 other people ... on 2006-02-07 ... copy

- related tags**
- ajax
 - web
 - calendar
 - blog
 - tools
 - social
 - design
 - software
 - google
 - internet
 - rss



Latest microformats news XML

Nominated for SxSW Design Awards

This site has been chosen as a finalist in the "Technical Achievement" category of the [SxSW Web Awards](#).

Congratulations to everyone who contributes around here!

February 3rd, 2006 Ryan King Add Comment

Google releases Web Authoring Statistics

Google has recently released a [report on Web Authoring Statistics](#).

The report, which used over 1 billion documents as its input, analyzes the relative frequency of various HTML tags and their use on the web. It also mentions [microformats.org](#) as one of the sites that has seen an increase in trends on the web.

[The study](#) is worth a read for any web developer, especially microformats. Beware, the report is large (you'll need a browser which can handle large files, but it seems to work pretty well here).

Tags [microformats](#), [google](#), [html](#), [statistics](#)

January 25th, 2006 Ryan King

Microformats are semantic markup

Microformats, while a relatively young movement, are an outgrowth of a

What are microformats?

Designed for humans first and machines second, microformats are a set of simple, open data formats built upon existing and widely adopted standards. [Learn more about microformats](#) →



Overview of microformats

People and Organizations
[hCard](#)

Lists and Outlines
[XOXO](#)

more...
See [microformats list](#)

Microformats



Make your data as
discoverable as possible

Native to a Web of Data

- 1 Look to add value to the **Aggregate Web of data**
- 2 Build for **normal users, developers and machines**
- 3 Start designing with **data**, not with **pages**
- 4 Identify your **first order** objects and make them **addressable**
- 5 Use **readable, reliable and hackable** URLs
- 6 Correlate with external **identifier schemes**
- 7 Build **list views** and **batch manipulation interfaces**
- 8 Create **parallel data services** using **standards**
- 9 Make your data as **discoverable** as possible



If you've enjoyed this talk...



<http://www.flickr.com/photos/angela7/76598852/>

PLASTICBAG.ORG

A weblog by [Tom Coates](#) who thinks up neat stuff for [Yahoo!](#)
Concerning social software, mass-amateurisation, design, and future media
You can [subscribe to an RSS feed](#), [read the disclaimer](#) or [explore the archives](#)

On the upcoming Carson Workshops summit...

Posted January 6, 2006 12:58 PM.

Quick announcement - I'm going to be talking at the upcoming Carson Workshops summit on [The Future of Web Apps](#) on the 8th of February in London. It's a one-day conference for developers and web application builders that's going to be focusing in on some of the technologies and ideas that are foundational to the web that is to come. It's got a pretty stellar group of people speaking - Joshua Schachter of [del.icio.us](#) will be talking about tags and how useful and important they are, [David Heinemeier Hansson](#) will be talking about [Gmail](#) and developing for [Flickr](#), [Steve Scalet](#) and [Shaun Inman](#) will be talking about Web 2.0 business models.

plasticbag.org

CARSONWORKSHOPS | SUMMIT

THE FUTURE OF V

YAHOO! DEVELOPER NETWORK

Yahoo! Developer Network Home - Welcome!

- Home**
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- [Flickr™](#)
Share photos with your friends
- [HotJobs](#)
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- [Merchant Solutions](#)
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- [RSS Feeds](#)
Integrate Yahoo! content with your site or app
- [Search](#)
Integrate Web, image,

Innovate.



You bring the skills. We bring the ingredients.

Welcome to the **Yahoo! Developer Network**. We help software developers integrate their Web sites and applications with Yahoo! using standard technologies such as XML and RSS. Click on a link at left to learn more about our products and how we can help you.

New! - Mosey up to the Feed Trough - New RSS Page

We've updated our [RSS page](#) to include lots of basic information as well as [a ginormous list](#) of every RSS feed our API detects. You could find out of the corner of the Yahoo! universe.

New!

Yahoo! Developer Network - this time we're talking about Webjay. Webjay lets you integrate your web. Webjay lets you integrate them, play the music. The developer network are doubly excited because webjay has an API and we like nothing better than an API. (OK: we like gummi bears better than a API. But not by much.) The Webjay API enables you to manipulate and access playlists through familiar REST-like requests. Check out the API at [http://webjay.yahoo.com/api/](#) and down there on the left is the new

Featured Applications

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See the web applications and tools built using the Flickr APIs

[Yahoo! Music Engine](#)



developer.yahoo.net

All photos from Flickr!

- <http://www.flickr.com/photos/altemark/39593706/>
- <http://www.flickr.com/photos/lorri37/88171887/>
- <http://www.flickr.com/photos/777/70455377/>
- <http://www.flickr.com/photos/nodditect/81114201/>
- <http://www.flickr.com/photos/dplanet/81933878/>
- <http://www.flickr.com/photos/merfam/71578647/>
- <http://www.flickr.com/photos/dankamminga/7563414/>
- <http://www.flickr.com/photos/angela7/76598852/>

ALL CREATIVE COMMONS (ATTRIBUTION ONLY) LICENSED

Alega Light, Normal & Bold

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz
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